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PTO-1390 (Rev. 07-2005) Ded for use through 3/31/2007. OMB 0651-0021 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

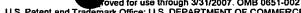
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TRANSMITTAL LETTER TO THE UNITED STATES	1-17016					
DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371	U.S. APPLICATION NO. (If known, see 37 CFR 1.5)					
INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE	10/532,843 PRIORITY DATE CLAIMED					
PCT/EP2003/011948 28 October 2003 (28.10.2003) TITLE OF INVENTION	31 October 2002 (31.10.2002)					
Method for Catalytically Dehydrating Hydrob	arbons					
APPLICANT(S) FOR DO/EO/US Natarajan Thiagarajan et al						
Applicant herewith submits to the United States Designated/Elected Office (DO/EC	O/US) the following items and other information:					
1. This is a FIRST submission of items concerning a submission under 35 U.S.C. 371						
2 This is a SECOND or SUBSEQUENT submission of items concerning a submission	n under 35 U.S.C. 371.					
This is an express request to begin national examination procedures (35 U.S.C. 37 (5), (6), (9) and (21) indicated below.	1(f)). The submission must include Items					
4. The US has been elected (Article 31).						
5 A copy of the International Application as filed (35 U.S.C. 371(c)(2))						
a. is attached hereto (required only if not communicated by the Internation	nal Bureau).					
b. has been communicated by the International Bureau.	b has been communicated by the International Bureau.					
c. is not required, as the application was filed in the United States Receiv	c. is not required, as the application was filed in the United States Receiving Office (RO/US).					
6. An English language translation of the International Application as filed (35 U.S.6	An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).					
a. is attached hereto.						
b. has been previously submitted under 35 U.S.C. 154(d)(4).						
7. Amendments to the claims of the International Application under PCT Article 19	(35 U.S.C. 371(c)(3))					
a. are attached hereto (required only if not communicated by the International Bureau).						
b. have been communicated by the International Bureau.	b. have been communicated by the International Bureau.					
c. have not been made; however, the time limit for making such amendr	c. have not been made; however, the time limit for making such amendments has NOT expired.					
d. have not been made and will not be made.	d. have not been made and will not be made.					
8. An English language translation of the amendments to the claims under PCT Ar	An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).					
9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).					
10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).						
Items 11 to 20 below concern document(s) or information included:						
11. An Information Disclosure Statement under 37 CFR 1.97 and 1.98.	An Information Disclosure Statement under 37 CFR 1.97 and 1.98.					
12. X An assignment document for recording. A separate cover sheet in compliance w	An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.					
A preliminary amendment.						
An Application Data Sheet under 37 CFR 1.76.						
A substitute specification.						
17. A computer-readable form of the sequence listing in accordance with PCT Rule	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.					
18. A second copy of the published International Application under 35 U.S.C. 154(d)	A second copy of the published International Application under 35 U.S.C. 154(d)(4).					
19. A second copy of the English language translation of the international application	A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).					

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mall Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. Page 1 of 3

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	TION NO. (if known,	see 37 CFR 1.5)	INTERNATIONAL A	PPLICATION NO.	ATTORNEY'S DO	
10/532,8	10/532,843 PCT/EP2003/011948		1-17016			
	items or information		eipt card; copies of cite	ed foreign patent d	ocument; IDS Form	SB/08A
The fell	owing fees have b	een submitted			CALCULATIONS	PTO USE ON
	•			\$300	\$ -	T
If the written opin	US indicates all cl	SA/US or the inter- aims satisfy provis	national preliminary examinations of PCT Article 33(1)-(4)\$0	\$_	
23. Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)			\$ -			
	TOTAL OF 21, 22	2 and 23 =			-	
sequenc electroni	e listing in complia c medium) (37 CF	nce with 37 CFR R 1.492(j)).	d in paper over 100 sheets (1.821(c) or (e) or computer of paper or fraction thereof	program listing in an		
Total Sheets	Extra Sheets	Number of each additional 50 or fraction RATE thereof (round up to a whole number)				
- 100 =	/50 =			x \$250	\$ -	1
	Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).			\$ 130.00		
CLAIMS	NUMB	ER FILED	NUMBER EXTRA	RATE	\$	
Total claims		- 20 =		× \$ 50	\$ -	
Independent clai	ms	- 3 =		x \$200	\$ -	
MULTIPLE DEP	ENDENT CLAIM(S	S) (if applicable)		+ \$360	\$	
	TOTAL OF ABOVE CALCULATIONS =			E CALCULATIONS =	\$ 130.00	
Applicant cla	Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.			uced by 1/2.	-	
	SUBTOTAL =			\$ 130.00		
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).		\$ -				
TOTAL NATIONAL FEE =		\$ 130.00				
			1.21(h)). The assignment m \$40.00 per property	ust be accompanied +	\$ 40.00	
			TOTAL	FEES ENCLOSED =	\$ 170.00	
005 LLANDGRA 0	0000048 1053284	3			Amount to be refunded:	\$
617	617 130.00 OP			Amount to be charged	\$	



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	ove fees is enclosed. \$ to cover the above fees. hich may be required, or credit any overpayment to Deposit				
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.					
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been me and granted to restore the international Application to pending status.	t, a petition to revive (37 CFR 1.137(a) or (b)) must be filed				
SEND ALL CORRESPONDENCE TO: Customer Number 001678 MARSHALL & MELHORN, LLC FOUR SEAGATE - 8TH FLOOR TOLEDO, OHIO 43604 Phone: (419) 294-7114 Fax: (419) 249-7151	SIGNATURE MARK A. HIXON NAME 44,766 REGISTRATION NUMBER				

CERTIFICATE UNDER 37 CFR 1.10 OF MAILING BY "EXPRESS MAIL"

"Express Mail" Label Number <u>EV 487107627 US</u>
Date of Deposit December 19, 2005
I hereby certify that this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450.
Signature of person mailing correspondence
Mark A. Hixon Typed name of person mailing correspondence

FILING IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) UNDER 35 USC 371

U.S. Application Number 10/532,843 International Appln. No. PCT/EP2003/011948 filed 28 October 2003

Earliest Priority Date Claimed: 31 October 2002

Title: Method for Catalytically Dehydrating Hydrocarbons

Inventors: Natarajan Thiagarajan et al

Assignee: Uhde GmbH

Attorneys: Marshall & Melhorn, LLC

Attorney Docket No: 1-17016

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(Signature of person mailing correspondence)
Mark A. Hixon
(Typed name of person mailing correspondence)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

NATARAJAN THIAGARAJAN, MAX

HEINRITZ-ADRIAN, SASCHA WENZEL,
and JOHANNES MENZEL

Application No. 10/532,843

Filing Under 35 U.S.C. 371 in the DO/EO/US
of PCT/EP2003/011948 filed 28 October 2003

For: METHOD FOR CATALYTICALLY
DEHYDRATING HYDROCARBONS

Group Art Unit:

Examiner:

Attorney Docket 1-17016

December 19, 2005

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 USC 371

Honorable Sir:

In response to the "Notification of Missing Requirements Under 35 USC 371 in the United States Designated/Elected Office (DO/EO/US)" dated December 12, 2005 (copy attached), enclosed is the fully executed Combined Declaration and Power of Attorney document to complete the missing requirements in the above-captioned application which was filed in the U.S. Patent and Trademark Office, PCT Branch, on April 27, 2005, under 35 USC 371.

We have also enclosed an Assignment document from Natarajan Thiagaarajan, Max Heinritz-Adrian, Sascha Wenzel and Johannes Menzel to Uhde GmbH for recording in the U.S. Patent and Trademark Office, and an Information Disclosure Statement with copies of the cited foreign patent documents and IDS Form SB/08A.

A check in the amount of \$170.00 is attached to cover the requisite fees for late filing of the executed Declaration (\$130.00) and recordation of the Assignment document (\$40.00).

Please charge any additional fees due or credit any overpayment to Deposit Account No. 13-1816.

Respectfully submitted,

Mark A. Hixon

Registration No. 44,766

ATTORNEYS
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Four SeaGate - 8th Floor

Toledo, Ohio 43604

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United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Viginia 22313-1450 www.uspto.gov

ATTY. DOCKET NO. FIRST NAMED APPLICANT U.S. APPLICATION NUMBER NO. 1-17016 10/532,843

Natarajan Thiagarajan

INTERNATIONAL APPLICATION NO.

PCT/EP03/11948

I.A. FILING DATE PRIORITY DATE

10/28/2003

10/30/2002

1678 MARSHALL & MELHORN FOUR SEAGATE, EIGHT FLOOR **TOLEDO, OH 43604**

CONFIRMATION NO. 4924 371 FORMALITIES LETTER *OC000000017038772*

Date Mailed: 12/12/2005

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 04/27/2005
- Copy of the International Search Report filed on 04/27/2005
- Copy of IPE Report filed on 04/27/2005
- Preliminary Amendments filed on 04/27/2005
- Oath or Declaration filed on 04/27/2005
- Request for Immediate Examination filed on 04/27/2005
- Copy of references cited in ISR filed on 04/27/2005
- U.S. Basic National Fees filed on 04/27/2005
- Priority Documents filed on 04/27/2005

The following items MUST be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date. The current oath or declaration does not comply with 37 CFR 1.497(a) and (b) in that it:
 - is not executed in accordance with either 37 CFR 1.66 or 37 CFR 1.68.

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed

to the address given in the ling and include the U.S. application no. should bove (37 CFR 1.5)

A copy of this notice MUST be returned with the response.

MAMIE P PERSON

Telephone: (703) 308-9140 EXT 227

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/532,843	PCT/EP03/11948	1-17016

FORM PCT/DO/EO/905 (371 Formalities Notice)

